LH-N007 2R scanner User Manual



LEAHUA 广州丽华舞台灯光音响有限公司 GZ LEAHUA LIGHT LIMITED

This manual contains important information. Please read before operating fixture.

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1 SECURITY TIPS

WARNING!!! To reduce the risk of fire, electric shock, or injury to persons, follow these important safety instructions:

- non-professionals, not to disassemble the light arbitrarily and lighting accessories inside.
- rated voltage range: AC110V-120V/60Hz or AC200V-240V / 50HZ (to be selected).
- not beam irradiate the flammable materials, flammable materials and the lamp should be maintained at least 1M over the distance.
- lamps used in ambient temperature: -15 $^{\circ}$ C -40 $^{\circ}$ C, the highest temperature of the surface of the lamp: 60 $^{\circ}$ C.
- to keep away from the liquid substance and humid environment.
- before using the lights must ensure the good grounding, can not install charging and remove any parts.
- the installation of lamps, must be fixed screw fasteners with additional security cable and regular inspection.
- lamps consecutive working hours is not recommended more than 10 hours.
- should stop using the lights in time when happens unusual conditions during the process
- lamp parts of the rotation, external accessories and paste parts should be regular inspected, such as the emergence of loose and rock, should be reinforced in a timely manner to prevent the accident.
- lamps adopt strong winds to refrigerate, it is easy to accumulate the
 dust, so you have to clean it weekly especially the cooling air
 opening, otherwise the dust will plug leading to poor light

2 Features:

Multi Effect Luminaire, Beam, Scanner, Laser Simulator

MSD 2R Lamp

3 ° Precision Beam

3 Facet Rotating Prism

Liquid Sky, Laser Wave and Cone Effects

X / Y and Z High-Speed Mirror System

(14) Dichroic Colors + White

(17) Static Gobos

3 TECHNOLOGY REFERENCE

SOURCE

MSD 2R Lamp

6,000 Hour Average Life

Beam angle: 3⁰

EFFECTS

Strobe

Electronic Dimmer

3 Facet Rotating Prism

Multiple Pattern Macros

COLOR

14 Dichroic Colors + White

GOBOS

17 Gobos + Open

CONTROL/CONNECTIONS

3 DMX Channel Modes (16 /17 / 21)

4 Button Control Panel

3 pin DMX In/Out

powerCON In/Out

SIZE / WEIGHT

Size: 358mm*268mm*197mm

N.W: 8kg

ELECTRICAL / THERMAL

AC 100-240V - 50/60Hz

Power: 220W

Temperature -7 $^{\circ}$ C -- 40 $^{\circ}$ C

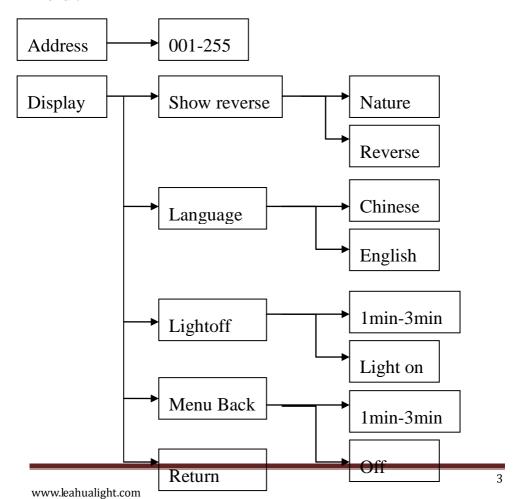
APPROVALS / RATINGS

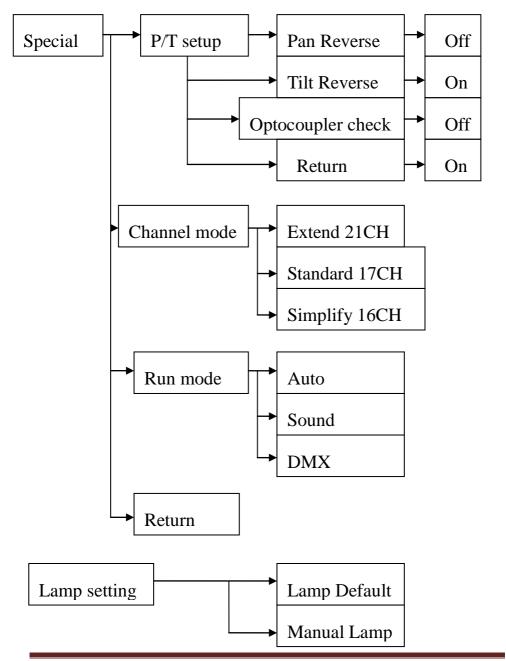
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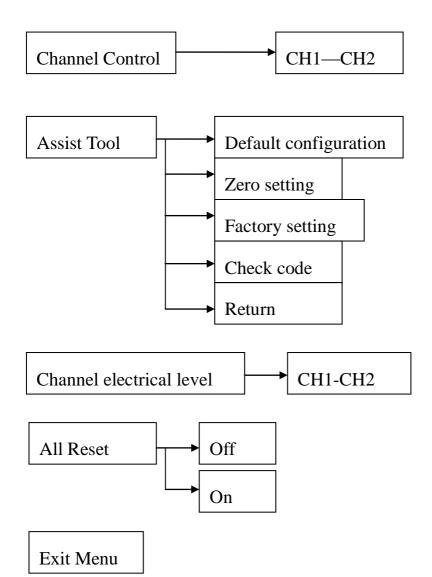
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4 Board Instruction

Menu:







5 DMX CHANNEL SHEET

Standard 17Ch / Simplify 16CH

Cha	nnel	Value	Function
17CH	16CH		
1	1		PAN & PAN FINE
		0-127	Pan Movement
		128-255	Pan movement Fine
2	2		TILT & TILT FINE
		0-127	Tilt Movement
		128-255	Tilt movement Fine
3	3		PAN Speed
		0-7	No function
		8-255	Pan shaking movement slow to fast
4	4		Tilt Speed
		0-7	No function
		8-255	Tilt shaking movement slow to fast
5	5		Color
		0-2	White
		3-4	White+color1
		5-6	Color 1
		7-9	Color 1+Color 2
		10-11	Color 2
		12-13	Color 2+Color 3
		14-15	Color 3
		16-18	Color 3+Color 4
		19-20	Color 4
		21-22	Color 4+Color 5
		23-24	Color5
		25-27	Color 5+Color 6
		28-29	Color 6
		30-31	Color 6+Color 7

32-33	
37-38 Color 8 39-40 Color 8+Color 9 41-43 Color 9 44-45 Color 9+Color 10 46-47 Color 10 48-49 Color 10+Color 11 50-52 Color 11 53-54 Color 11+Color 12 55-56 Color 12 57-58 Color 12+Color 13 59-61 Color 13	
39-40 Color 8+Color 9 41-43 Color 9 44-45 Color 9+Color 10 46-47 Color 10 48-49 Color 10+Color 11 50-52 Color 11 53-54 Color 11+Color 12 55-56 Color 12 57-58 Color 12+Color 13 59-61 Color 13	
41-43 Color 9 44-45 Color 9+Color 10 46-47 Color 10 48-49 Color 10+Color 11 50-52 Color 11 53-54 Color 11+Color 12 55-56 Color 12 57-58 Color 12+Color 13 59-61 Color 13	
44-45 Color 9+Color 10 46-47 Color 10 48-49 Color 10+Color 11 50-52 Color 11 53-54 Color 11+Color 12 55-56 Color 12 57-58 Color 12+Color 13 59-61 Color 13	
46-47 Color 10 48-49 Color 10+Color 11 50-52 Color 11 53-54 Color 11+Color 12 55-56 Color 12 57-58 Color 12+Color 13 59-61 Color 13	
48-49 Color 10+Color 11 50-52 Color 11 53-54 Color 11+Color 12 55-56 Color 12 57-58 Color 12+Color 13 59-61 Color 13	
50-52 Color 11 53-54 Color 11+Color 12 55-56 Color 12 57-58 Color 12+Color 13 59-61 Color 13	
53-54 Color 11+Color 12 55-56 Color 12 57-58 Color 12+Color 13 59-61 Color 13	
55-56 Color 12 57-58 Color 12+Color 13 59-61 Color 13	
57-58 Color 12+Color 13 59-61 Color 13	
59-61 Color 13	
62-63 Color 13+Color 14	
64-65 Color 14	
66-67 Color 14+White	
68-128 Color Wheel Index - WHITE to CONC	30
BLUE	
129-190 *Clockwise Color Rotation from FAST	to
SLOW	
191-193 STOP	
194-255 *Counterclockwise Color Rotation fro	m
SLOW to FAST	
6 6 GOBOS	
0-7 OPEN	
8-14 Gobo1	
15-22 Gobo2	
23-29 Gobo3	
30-37 Gobo4	
38-44 Gobo5	
45-52 Gobo6	

		53-59	Gobo7
		60-67	Gobo8
		68-74	Gobo9
		75-82	Gobo10
		83-89	Gobo11
		90-97	Gobo12
		98-104	Gobo13
		105-112	Gobo14
		113-119	Gobo15
		120-126	Gobo16
		127-133	Gobo17
		134-194	*Clockwise Gobo Wheel Rotation From
		134-134	FAST to SLOW
		195-255	*Counterclockwise Gobo Wheel Rotation
		190-200	From SLOW to FAST
7	7		PATTERN MACROS
		0-8	OFF
		9-16	Pattern Macro 1
		17-25	Pattern Macro 2
		26-33	Pattern Macro 3
		34-42	Pattern Macro 4
		43-50	Pattern Macro 5
		51-59	Pattern Macro 6
		60-67	Pattern Macro 7
		68-76	Pattern Macro 8
		77-84	Pattern Macro 9
		85-93	Pattern Macro 10
		94-101	Pattern Macro 11
		102-110	Pattern Macro 12
		111-118	Pattern Macro 13
		119-127	Pattern Macro 14

			_
		128-135	Pattern Macro 15
		136-144	Pattern Macro 16
		145-152	Pattern Macro 17
		153-161	Pattern Macro 18
		162-169	Pattern Macro 19
		170-178	Pattern Macro 20
		179-186	Pattern Macro 21
		187-195	Pattern Macro 22
		196-203	Pattern Macro 23
		204-212	Pattern Macro 24
		213-220	Pattern Macro 25
		221-229	Pattern Macro 26
		230-237	Pattern Macro 27
		238-246	Pattern Macro 28
		247-255	Pattern Macro 29
8	8		PATTERN ROTATION - *CLOCKWISE /
			*COUNTERCLOCKWISE
		0-9	Stop
		10-120	*Clockwise Pattern Rotation from FAST to SLOW
		121-134	Stop
		135-245	*Counterclockwise Pattern Rotation from SLOW to FAST
		246-255	Stop
9	9		PATTERN ROTATION - *HORIZONTAL
			/*VERTICAL
		0-9	Stop
		10-120	*Horizontal Pattern Rotation from FAST to SLOW
		121-134	Stop
		135-245	*Vertical Pattern Rotation from SLOW to
-			

			FAST
		246-255	Stop
10			PATTERN ZOOM
		0-127	Pattern ZOOM Manual
		128-255	Pattern ZOOM SLOW to FAST
11	10		PATTERN SCAN *CLOCKWISE
			MOVEMENT
		0-9	Stop
		10-120	*Clockwise Pattern move to left
		121-144	Stop
		145-255	*Clockwise Pattern move to right
12	11		PATTERN SCAN
			*COUNTERCLOCKWISE MOVEMENT
		0-9	Stop
		10-120	* Counterclockwise Pattern move to left
		121-144	Stop
		145-255	* Counterclockwise Pattern move to right
13	12		PATTERN SCAN
		0-127	0° to 360°
		128-191	*Clockwise Rotation FAST to SLOW
		192-255	*Counterclockwise Rotation SLOW to
		132-233	FAST
14			SHAKE
		0-7	Stop
		8-255	Shaking speed from slow to fast
15	13		PRISM / PRISM ROTATION
		0-127	PRISM Indexing
		128-191	*Clockwise PRISM Rotation FAST to SLOW
		192-255	*Counterclockwise PRISM Rotation SLOW to FAST

16	14		DIMMER	
		0-255	0-100% dimmer	
17	15		SHUTTER, STROBE	
		0-7	No function	
		8-255	Strobe from slow to fast	
17	16		FUNCTIONS	
		0-39	No function	
		40-59	Lamp On	
		60-79	Lamp Off	
		80-89	ALL MOTORS Reset	
		90-99	PAN / TILT Motors Reset	
		100-109	COLOR Motor Reset	
		110-119	GOBO Motor Reset	
		120-129	SHUTTER & DIMMER Motors Reset	
		130-139	OTHER Motors Reset	
			140-149	ENABLE BLACKOUT WHILE PAN/TILT
		140-149	MOVEMENT	
		150-159	DISABLE BLACKOUT WHILE PAN/TILT	
		130-133	MOVEMENT	
		160-169	ENABLE BLACKOUT WHILE COLOR	
		100 103	WHEEL MOTOR MOVEMENT	
		170-179	DISABLE BLACKOUT WHILE COLOR	
		170 173	WHEEL MOTOR MOVEMENT	
		180-189	ENABLE BLACKOUT WHILE GOBO	
		100 100	WHEEL MOTOR MOVEMENT	
		190-199	DISABLE BLACKOUT WHILE GOBO	
		100 100	WHEEL MOTOR MOVEMENT	
		200-219	RESET	
		220-255	NO FUNCTION	

Extend 21Channel

Channel	Value	Function	
1		PAN	
1	0-255	Pan Movement	
2		PAN Fine	
	0-255	Pan movement Fine	
3		Tilt	
J	0-255	TILT Movement	
4		Tilt Fine	
7	0-255	Tilt movement Fine	
		PAN Speed	
5	0-7	No function	
	8-255	Pan shaking movement slow to fast	
		Tilt Speed	
6	0-7	No function	
	8-255	Tilt shaking movement slow to fast	
		Color	
	0-2	White	
	3-4	White+color1	
	5-6	Color 1	
	7-9	Color 1+Color 2	
	10-11	Color 2	
7	12-13	Color 2+Color 3	
	14-15	Color 3	
	16-18	Color 3+Color 4	
	19-20	Color 4	
	21-22	Color 4+Color 5	
	23-24	Color5	
	25-27	Color 5+Color 6	

		1
	28-29	Color 6
	30-31	Color 6+Color 7
	32-33	Color 7
	34-36	Color 7+Color 8
	37-38	Color 8
	39-40	Color 8+Color 9
	41-43	Color 9
	44-45	Color 9+Color 10
	46-47	Color 10
	48-49	Color 10+Color 11
	50-52	Color 11
	53-54	Color 11+Color 12
	55-56	Color 12
	57-58	Color 12+Color 13
	59-61	Color 13
	62-63	Color 13+Color 14
	64-65	Color 14
	66-67	Color 14+White
	68-128	Color Wheel Index - WHITE to CONGO BLUE
	129-190	*Clockwise Color Rotation from FAST to SLOW
	191-193	STOP
	194-255	*Counterclockwise Color Rotation from SLOW
	101200	to FAST
		GOBOS
	0-7	OPEN
8	8-14	Gobo1
	15-22	Gobo2
	23-29	Gobo3
	30-37	Gobo4
	38-44	Gobo5
	45-52	Gobo6

	FO FO	0.17
		Gobo7
	60-67	Gobo8
		Gobo9
	75-82	Gobo10
	83-89	Gobo11
	90-97	Gobo12
	98-104	Gobo13
	105-112	Gobo14
	113-119	Gobo15
	120-126	Gobo16
	127-133	Gobo17
	134-194	*Clockwise Gobo Wheel Rotation From FAST to SLOW
	195-255	*Counterclockwise Gobo Wheel Rotation From SLOW to FAST
		PATTERN MACROS
	0-8	OFF
	9-16	Pattern Macro 1
	17-25	Pattern Macro 2
	26-33	Pattern Macro 3
	34-42	Pattern Macro 4
	43-50	Pattern Macro 5
9	51-59	Pattern Macro 6
9	60-67	Pattern Macro 7
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	85-93	Pattern Macro 10
	94-101	Pattern Macro 11
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	111-118	Pattern Macro 13
	119-127	Pattern Macro 14

	128-135	Pattern Macro 15
	136-144	Pattern Macro 16
	145-152	Pattern Macro 17
	153-161	Pattern Macro 18
	162-169	Pattern Macro 19
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	187-195	Pattern Macro 22
	196-203	Pattern Macro 23
	204-212	Pattern Macro 24
	213-220	Pattern Macro 25
	221-229	Pattern Macro 26
	230-237	Pattern Macro 27
	238-246	Pattern Macro 28
	247-255	Pattern Macro 29
		PATTERN ROTATION - *CLOCKWISE /
		*COUNTERCLOCKWISE
	0-9	Stop
	10-120	*Clockwise Pattern Rotation from FAST to
10		SLOW
	121-134	
	135-245	*Counterclockwise Pattern Rotation from SLOW to FAST
	246-255	Stop
		PATTERN ROTATION - *HORIZONTAL /
		*VERTICAL
	0-9	Stop
11	10-120	*Horizontal Pattern Rotation from FAST to SLOW
	121-134	Stop
	135-245	*Vertical Pattern Rotation from SLOW to FAST

	246-255	Stop
		PATTERN ZOOM
12	0-127	Pattern ZOOM Manual
	128-255	Pattern ZOOM SLOW to FAST
		PATTERN SCAN *CLOCKWISE
		MOVEMENT
13	0-9	Stop
13		*Clockwise Pattern move to left
	121-144	Stop
	145-255	*Clockwise Pattern move to right
		PATTERN SCAN *COUNTERCLOCKWISE
		MOVEMENT
14	0-9	Stop
14	10-120	* Counterclockwise Pattern move to left
	121-144	Stop
	145-255	* Counterclockwise Pattern move to right
		PATTERN SCAN
15	0-127	0° to 360°
10	128-191	*Clockwise Rotation FAST to SLOW
	192-255	*Counterclockwise Rotation SLOW to FAST
		SHAKE
16	0-7	Stop
	8-255	Shaking speed from slow to fast
17		Prism
11	0-255	Prism
		PRISM ROTATION
	0-127	PRISM Indexing
18	128-191	*Clockwise PRISM Rotation FAST to SLOW
	192-255	*Counterclockwise PRISM Rotation SLOW to
	132-233	rasi
19		DIMMER

	0-255	0-100% dimmer
		SHUTTER, STROBE
20	0-7	No function
	8-255	Strobe from slow to fast
		FUNCTIONS
	0-39	No function
	40-59	Lamp On
	60-79	Lamp Off
	80-89	ALL MOTORS Reset
	90-99	PAN / TILT Motors Reset
	100-109	COLOR Motor Reset
	110-119	GOBO Motor Reset
	120-129	SHUTTER & DIMMER Motors Reset
	130-139	OTHER Motors Reset
	140-149	ENABLE BLACKOUT WHILE PAN/TILT
21		MOVEMENT
	150-159	DISABLE BLACKOUT WHILE PAN/TILT
		IMOVEMENT
	160-169	ENABLE BLACKOUT WHILE COLOR WHEEL
		MOTOR MOVEMENT
	170-179	DISABLE BLACKOUT WHILE COLOR
		WHEEL MOTOR MOVEMENT
	180-189	ENABLE BLACKOUT WHILE GOBO WHEEL
		MOTOR MOVEMENT
	190-199	DISABLE BLACKOUT WHILE GOBO WHEEL
	200 240	MOTOR MOVEMENT
	200-219	
	220-255	NO FUNCTION

6 DIFFICULTY RESOLUTION

The following is a list of problems and resolution, and other malfunction preparing work should be professionally qualified staff to deal with.

1. Bulb not working

- a) Check whether approaching the service life of light bulbs, then change it
- b) Check whether bulbs circuitry leak, loss or connect poorly

2. Beam appears bleak

- a) The bulbs maybe approach the service life, then change it, or the optical components are unclean.
- b) Bulbs have accumulation of dust, so the bulbs and other parts inside the lamp should be cleaned and maintained in regular period.

3. Computer lamp work intermittently

- a) Check whether the fan process naturally and become dirty
- b) Check inner temperature-response control plug is off
- c) Check whether the circuitry is good

4. The computer lamp not controlled by controller during lighting

- a) Check numeral starting address and the connection of communication control circuit
- b) The corresponding channel button of controller is open or not
- c) Check whether the fuse on power supply input jack is broken off

7 AFTER SERVICE

- 1. Our company offer technical consultation to customers for ever.
- 2. If the machine is wrong and need repairmen, please truthfully fill in the related content and feedback us the problems timely, as well as we have to improve the product.
- 3. In addition to the lamp, also matching accessories are as follows:

 accessories: Power line 1 piece Optional parts: (customers)

8 LED Display Menu:

				A:Function (Return) B:Down C:UP D:Enter (Menu)
A	В	C	D	



Warranty Card Name Model Production Purchase End User Company Name: Link man: Tel: Stamp

Description: These must be truthfully fill, seal by the end-user and point-of-sale, or else the warranty will not work (warranty period and terms, see the following)

warranty period: one year since purchase warranty terms: 1. If fail when using the product in normal state, you can made under the provisions of the warranty, show the warranty card and purchase bills(copy), and enjoy free maintenance service in a specific service center or the manufacturer.

- 2. The following will be the implementation of paid service:
- (1)Without the effective warranty card
- (2) There's blank, alter and no point-of-sale name
- (3)Fail caused by unresistance
- (4)Fail caused by transportation or unloading
- (5)Fail caused by not operate by manual
- (6)Fail caused by disassemble without unauthorized
- (7) Fail caused by using the unauthorized control system

Note:

Based on our company continue to improve the product, the statement containing data may have changed, and will not notice the change any more. Company retains its right to change specifications related when product is improved. Thanks for your understanding.